CLAIMS:

What is claimed is:

1	1. A method for producing an expanded, farinaceous food product having enhanced
2	flavor characteristics without the use of a drying oven, said method comprising, in
3	combination, the following steps:
4	(a) plasticizing a farinaceous food mixture into a first extrudate flow
5	containing from about 5 weight percent to about 17 weight percent of at
6	least one plasticizer selected from monosaccharides, polysaccharides, and
7	edible alcohols and having a moisture content from about 9 weight percent
.8	to about 17 weight percent in an extruder barrel having a barrel pressure
9	equal to or in excess of the vapor pressure of the water in the mixture;
10	(b) directing the first extrudate flow from said extruder barrel to a central
11	passageway;
12	(c) imparting at least one cleft in the first extrudate flow thereby dividing
13	the first extrudate flow into a plurality of adjacent flowing extrudate flows;
14	(d) injecting a flavored fluid additive into the at least one cleft between the
15	plurality of adjacent flowing extrudate flows;
16	(i) wherein the injecting step utilizes a co-injection die insert
17	having at least one capillary channel in fluid communication with a
18	peripheral reservoir manifold circumscribing the injection assembly,

9	(ii) wherein the injection step further utilizes a supply port fluidly
20	connecting the peripheral reservoir manifold to a fluid additive
21	source;
22	(e) coalescing the plurality of adjacent flowing extrudate flows into a
23	second extrudate flow while generally maintaining the fluid additive's
24	relative position between the plurality of adjacent flowing extrudate flows;
25	and
26	(f) extruding the second extrudate flow through a nozzle section into a
27	zone of ambient pressure below the vapor pressure of the water in the
28	mixture;
29	thereby producing a crisp flavored product having a moisture content from about 4 weight
30	percent to about 8 weight percent and a water activity from about 0.30 to about 0.45.
1	2. The method of Claim 1, wherein the plasticizer is selected from the group
2	consisting of maltodextrin, polydextrose, sucrose, corn syrup solids, and glycerol.
1	3. The method of Claim 1, wherein the plasticizer is a mixture containing from about
2	4% to about 6% corn syrup solids, from about 3% to about 6% polydextrose, from about
3	0.5% to about 2% sucrose, and from about 0.5% to about 2.5% glycerol, based on the
4	total weight of the farinaceous food mixture

- 1 4. The method of Claim 1, comprising adding as the plasticizer from about 6 weight
- 2 percent to about 15 weight percent, based on the total weight of the farinaceous food
- mixture, one or more of the group consisting of sucrose, maltose, fructose, dextrose,
- 4 polysaccharides, and edible alcohols.
- 1 5. The method of Claim 1, wherein the farinaceous food mixture is plasticized by
- 2 contacting it with co-rotating twin extruder screws in the extruder barrel.
- 1 6. The method of Claim 1, wherein the farinaceous food mixture contains at least one
- 2 material selected from the group consisting of meals, flours, and starches derived from
- 3 corn, wheat, rice, oats, barley, potatoes, rye, tapioca and other cereal crops, legumes, and
- 4 tubers.
- The method of Claim 1, wherein the farinaceous food mixture contains corn meal.
- 1 8. The method of Claim 1, wherein said nozzle section reduces the cross sectional area
- of the second extrudate flow by a factor less than 20:1.
- 1 9. The method of Claim 8, wherein said nozzle section reduces the cross sectional area
- of the second extrudate flow by a factor greater than 4:1.
- 1 10. The method of Claim 1, wherein the fluid additive is colored.

- 1 11. The method of Claim 10, wherein the fluid additive comprises a first color and the
- 2 farinaceous food mixture comprises a second color.
- 1 12. The method of Claim 1, further comprising between steps (e) and (f), the step of
- 2 mixing said flavored fluid additive and said second extrudate into a more homogeneous
- 3 mixture with a static mixing mechanism positioned in said passageway.

- 1 13. A crisp, expanded, farinaceous food product exhibiting enhanced flavor
- 2 characteristics, and having a moisture content from about 4 weight percent to about 8
- weight percent and a water activity of from about 0.30 to about 0.45, which is produced
- 4 by the process of claim 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, or 12.